

NORTHEAST UTILITIES



THE COMPANY THAT LIGHTS AND POWERS CONNECTICUT
THE COMPANY THAT LIGHTS AND POWERS MASSACHUSETTS
THE COMPANY THAT LIGHTS AND POWERS VERMONT
THE COMPANY THAT LIGHTS AND POWERS NEW HAMPSHIRE
THE COMPANY THAT LIGHTS AND POWERS RHODE ISLAND
THE COMPANY THAT LIGHTS AND POWERS CONNECTICUT

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May 30, 1980

Docket No. 50-245
A00979

Director of Nuclear Reactor Regulation
Attn: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

- References:
- (1) G. Lear letter to D. C. Switzer dated June 2, 1977.
 - (2) W. Gammill letter to All Power Reactor Licensees dated August 8, 1979.
 - (3) D. L. Ziemann letter to W. G. Council dated April 18, 1980.
 - (4) D. C. Switzer letter to G. Lear dated August 1, 1977.
 - (5) W. G. Council letter to D. L. Ziemann dated November 15, 1979.
 - (6) W. G. Council letter to D. m. Crutchfield dated April 29, 1980.
 - (7) NNECO Personal Communication Letter to J. J. Shea (NRC) of March 14, 1980.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Undervoltage Protection

In response to References (1), (2), and (3), Northeast Nuclear Energy Company (NNECO) submitted information concerning degraded grid voltage protection in References (4), (5), and (6). As requested by the Staff, this letter documents NNECO's response to two additional questions verbally received May 7, 1980.

Question (1)

Reference (5) described NNECO's plans to reset the voltage sensors of the Level 2 undervoltage scheme to reflect the change in the switchyard limit from 343 to 336 KV. Where will the second Level 2 undervoltage scheme be located?

Response

The "first" Level 2 undervoltage scheme for Millstone Unit No. 1 is electrically connected to the 345 KV side of the Unit No. 1 preferred offsite supply as indicated in Reference (6). Physically, these relays are located in the control room on Panel 922A.

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The "second" Level 2 undervoltage scheme referred to in Reference (5) is actually related to Millstone Unit No. 2. This scheme will be used to detect a degraded voltage condition on the Unit No. 2 auxiliary bus system when the Unit No. 1 preferred offsite supply is supplying the Unit No. 2 safeguards buses. The relays for this scheme will be connected to the potential transformers in the safety-related switchgear for Unit No. 2 and will be physically located in the Unit No. 2 control room.

Question (2)

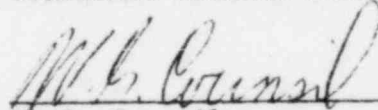
Submit the main one-line bus loading diagrams.

Response

The 30,001 bus loading diagram was submitted in Reference (7).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



W. G. Council
Vice President